



533 Rec'd PCT/PTO 05 OCT 2001

Patent
Attorney's Docket No. 030560-037

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)

Friedrich ALTMANN)

Application No.: 09/913,858)

Filed: August 20, 2001)

For: FUCOSYL TRANSFERASE GENE)

Group Art Unit: To be assigned

Examiner: To be assigned

RECEIVED
NOV 20 2001
FBI CENTER 1600/2900

INFORMATION DISCLOSURE STATEMENT
TRANSMITTAL LETTER

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Enclosed is an Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

- ☒ No additional fee for submission of an IDS is required.
- ☐ The fee of \$180.00 (126) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ A certification under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ A certification under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (126) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ Charge \$_____ to Deposit Account No. 02-4800 for the fee due.
- ☐ A check in the amount of \$_____ is enclosed for the fee due.

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

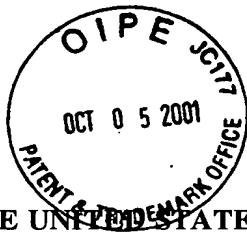
Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

By: Donna M. Meuth
Registration No. 36,607

P.O. Box 1404
Alexandria, Virginia 22313-1404
(703) 836-6620

Date: October 5, 2001



Patent
Attorney's Docket No. 030560-057

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)

Friedrich ALTMANN)

Application No.: 09/913,858)

Filed: August 20, 2001)

For: FUCOSYL TRANSFERASE GENE)

Group Art Unit: To be assigned

Examiner: To be assigned

TECH CENTER 1600/2900

NOV 20 2001

RECEIVED

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicant hereby submits the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98.

Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

The documents are being submitted within 3 months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later, therefore no fee or certification is required under 37 C.F.R. § 1.97(b).

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

By:

Donna M. Meuth
Registration No. 36,607

P.O. Box 1404
Alexandria, Virginia 22313-1404
(703) 836-6620
Date: October 5, 2001

| | | | | | |
|--|--|----------------------------------|--|-------------------------------|--|
| Substitute for form 1449A/PTO | | ATTORNEY'S DKT No. 030560-057 | | APPLICATION No. 09/913,858 | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | APPLICANT Friedrich ALTMANN | | GROUP To be assigned | |
| | | FILING DATE August 20, 2001 | | | |

| U.S. PATENT DOCUMENTS | | | | | | |
|---------------------------------|---|-------------------------|--|-------------------------------------|-------------|----|
| Examiner Initials | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication (MM-DD-YYYY) | | |
| | Number | Kind Code (if known) | | | | |
| | 5,272,066 | | Bergh et al | 12-21-1993 | | |
| FOREIGN PATENT DOCUMENTS | | | | | | |
| Examiner Initials | Foreign Patent Document | | Country | Date of Publication (MM-DD-YYYY) | Translation | |
| | Number | Kind Code (if known) | | | Yes | no |
| | 643132 | A1 | EP | 03-15-1995 | | |
| NON PATENT LITERATURE DOCUMENTS | | | | | | |
| Examiner Initials | Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | | | |
| ✓ | E. Staudacher et al, "Functional purification and characterization of a GDP-fucose: β-N-acetylglucosamine (Fuc to Asn linked GlcNAc) α-1,3-fucosyltransferase from mung beans," Glycoconjugate Journal, Vol. 12, 1995, pages 780-786. | | | | | |
| ✓ | F. Altmann, "More than silk and honey - or, can insect cells serve in the production of therapeutic glycoproteins?" Glycoconjugate Journal, Vol. 14, 1997, pages 643-646. | | | | | |
| ✓ | P. Lerouge et al, "N-glycoprotein biosynthesis in plants: recent developments and future trends," Plant Molecular Biology, Vol. 38, 1998, pages 31-48. | | | | | |
| ✓ | EMBL Database, XP-002140249, B67847, Arabidopsis thaliana, 12/09/1997. | | | | | |
| ✓ | EMBL Database, XP-002140250, AQ158899, Oryza sativa, 9/09/1998. | | | | | |
| ✓ | EMBL Database, XP-002140251, AQ328306, Oryza sativa, 01/11/1999. | | | | | |
| ✓ | H. Leiter et al, "Purification, cDNA cloning and expression of GDP-L-Fuc:Asn-linked GlcNAc α1,3-Fucosyltransferase from Mung Beans," The Journal of Biological Chemistry, Vol. 274, No. 31, July 30, 1999, pages 21830-21839. | | | | | |
| ✓ | EMBL Database, XP-002140629, VRA18529, Vigna radiata, 08/03/1999. | | | | | |
| ✓ | E. Staudacher, "α 1,3-Fucosyltransferases," Trends in Glycoscience and Glycotechnology, Vol. 8, No. 44, November 1996, pages 391-408. | | | | | |
| ✓ | E. Staudacher et al, "Strict order of (Fuc to Asn-linked GlcNAc) fucosyltransferases forming core-difucosylated structures," Glycoconjugate Journal, Vol. 15, 1998, pages 355-360. | | | | | |
| ✓ | S.C. Crawley et al, "A plant fucosyltransferase with human Lewis blood-group specificity," Carbohydrate Research, Vol. 193, 1989, pages 249-256. | | | | | |
| ✓ | D.C. James et al, "N-glycosylation of recombinant human interferon-γ-produced in different animal expression systems," Bio/Technology, Vol. 13, No. 6, June 1, 1995, pages 592-596. | | | | | |
| | Austrian Official Action, September 20, 1999 (issued in corresponding Austrian application). | | | | | |
| ✓ | Margus Pooga et al, "Cell penetrating PNA constructs regulate galanin receptor levels and modify pain transmission in vivo," Nature Biotechnology, Vol. 16, September 1998, pages 857-861. | | | | | |
| ✓ | John M. Burke, "Clearing the way for ribozymes," Nature Biotechnology, Vol. 15, May 1997, pages 414-415. | | | | | |
| ✓ | Earl Zablackis, et al, "Substitution of L-Fucose by L-Galactose in Cell Walls of Arabidopsis mur1," Science, Vol. 272, June 21, 1996, pages 1808-1810. | | | | | |
| ✓ | Antje von Schaewen, et al, "Isolation of a Mutant Arabidopsis Plant That Lacks N-Acetyl Glucosaminyl Transferase I and Is Unable to Synthesize Golgi-Modified Complex N-Linked Glycans," Plant Physiol (1993) 102, pages 1109-1118. | | | | | |
| ✓ | Arnd Petersen, PhD, et al, "Ubiquitous structures responsible for IgE cross-reactivity between tomato fruit and grass pollen allergens," J. Allergy Clin. Immunol., Vol. 98, No. 4, October 1996, pages 805-815. | | | | | |
| ✓ | Iain B.H. Wilson, et al, "Core α1,3-fucose is a key part of the epitope recognized by antibodies reacting against plant N-linked oligosaccharides and is present in a wide variety of plant extracts," Glycobiology, Vol. 8, No. 7, 1998, pages 651-661. | | | | | |
| ✓ | Verena Tretter, et al, "Fucose α1,3-Linked to the Core Region of Glycoprotein N-Glycans Creates an Important Epitope for IgE from Honeybee Venom Allergic Individuals," Int. Arch Allergy Immunol. (1993) 102:259-266. | | | | | |
| Examiner Signature | | | Date Considered | | | |

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.